FIG. 1

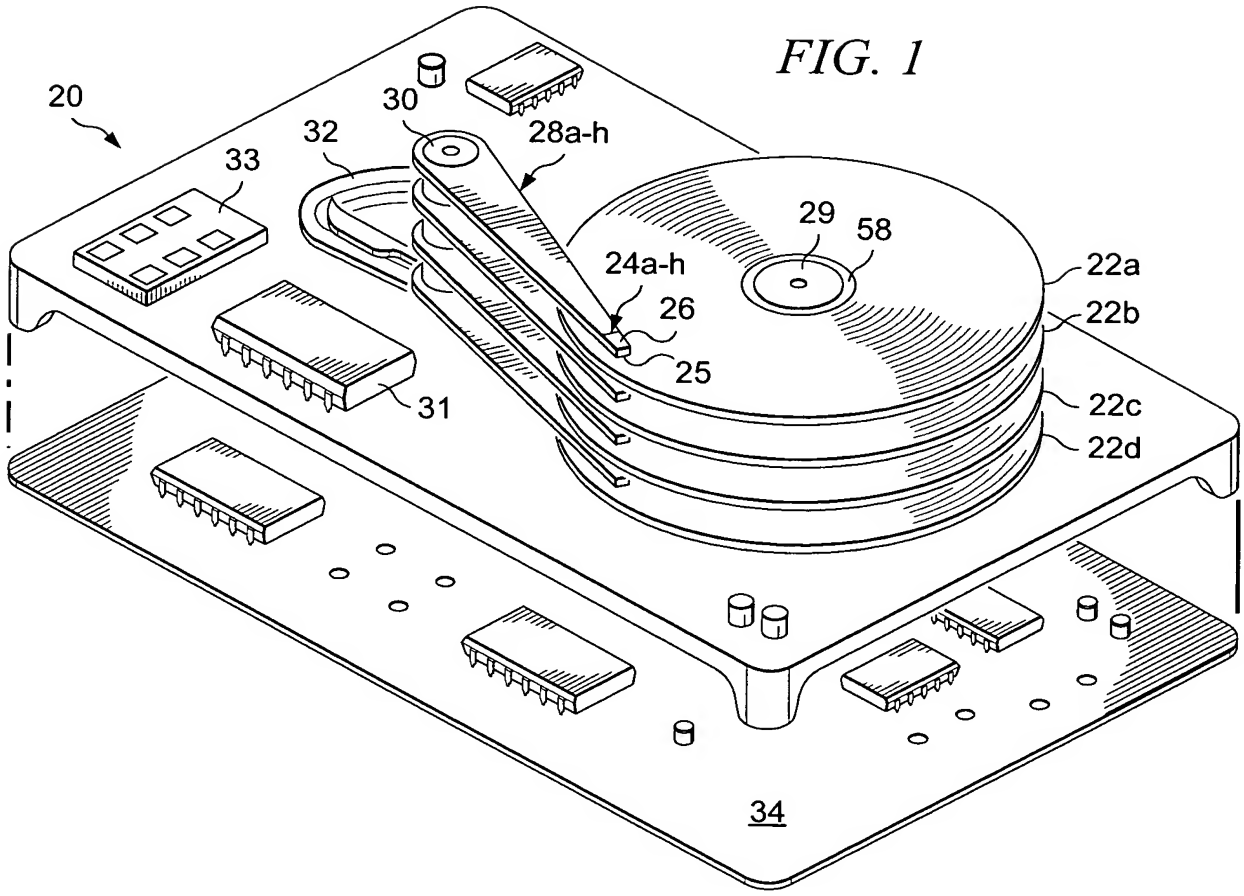

20
30
32
28a-h
33
29
58
24a-h
22a
26
22b
25
22c
31
22d
34

FIG. 2

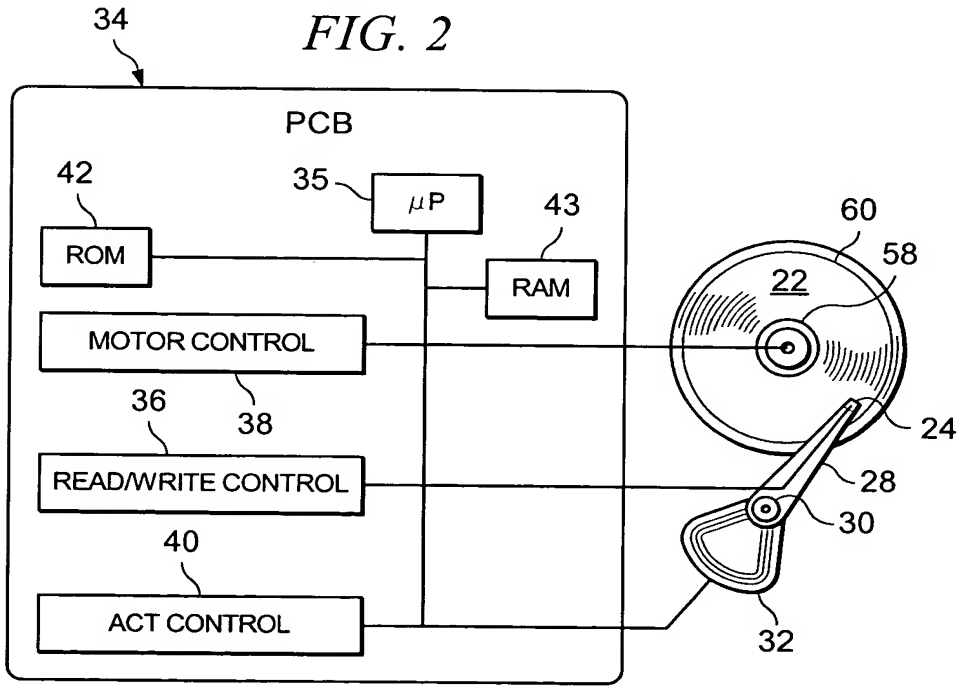

34
PCB
42
35
μP
43
ROM
RAM
MOTOR CONTROL
36
38
READ/WRITE CONTROL
40
ACT CONTROL
60
58
22
24
28
30
32

FIG. 3

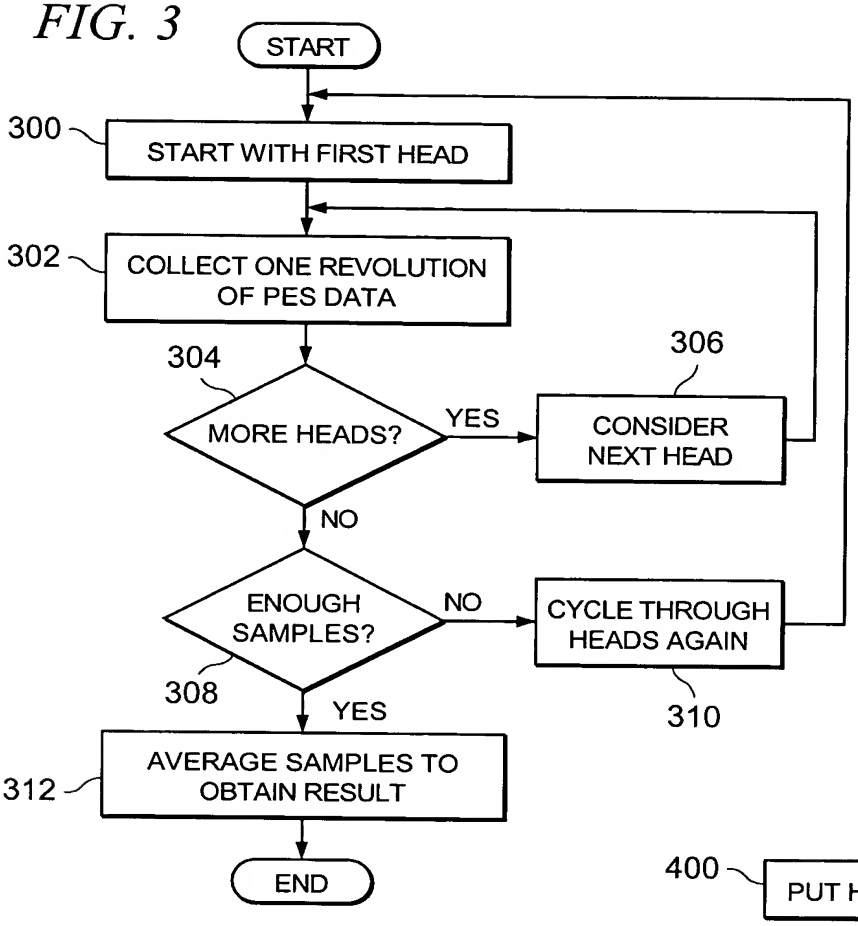
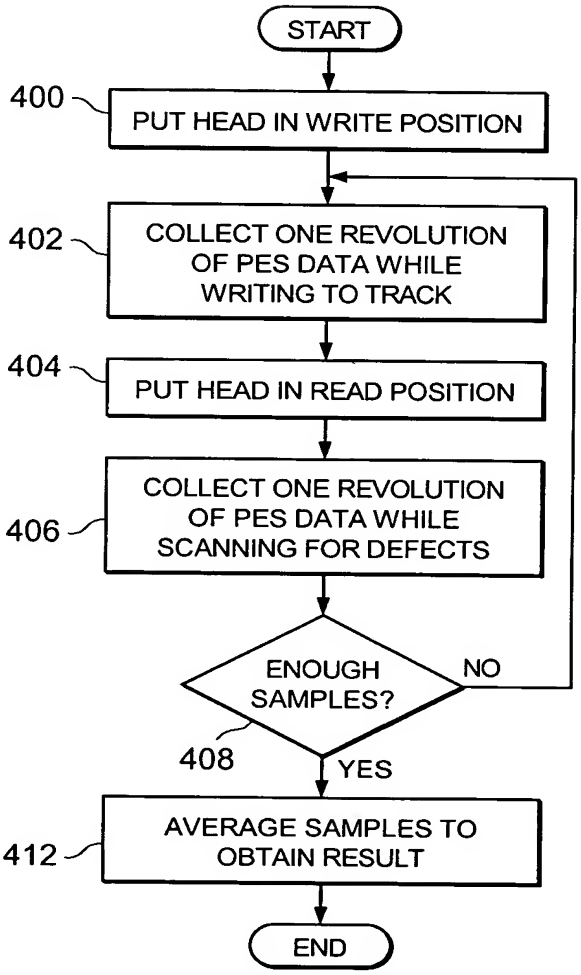

START
300
START WITH FIRST HEAD
302
COLLECT ONE REVOLUTION OF PES DATA
304
MORE HEADS?
YES
306
CONSIDER NEXT HEAD
NO
ENOUGH SAMPLES?
NO
CYCLE THROUGH HEADS AGAIN
308
310
YES
312
AVERAGE SAMPLES TO OBTAIN RESULT
END

FIG. 4


START
400
PUT HEAD IN WRITE POSITION
402
COLLECT ONE REVOLUTION OF PES DATA WHILE WRITING TO TRACK
404
PUT HEAD IN READ POSITION
406
COLLECT ONE REVOLUTION OF PES DATA WHILE SCANNING FOR DEFECTS
ENOUGH SAMPLES?
NO
408
YES
412
AVERAGE SAMPLES TO OBTAIN RESULT
END